

ABSTRACT OF THE DISCLOSURE

The present invention is directed to an oxygen-level controlled, modified atmosphere package consisting of a cup and a lid in the form of a dome. The cup and the dome are hermetically sealed along the flange of the cup and the dome. The interior of the package is designed to contain food and other perishable components having certain metabolizing characteristics. The package polymers are selected to provide an optimum environment for preserving the freshness of foods packaged in a modified gas atmosphere sealed inside the package with the food. The invention incorporates various mechanically enhanced characteristics, as well as offering enhanced safety with package tamper evidence visible to the consumer. In particular, the invention hereof further incorporates methodology and structures to produce reduced oxygen packaging (ROP) with the interior headspace automatically regulated to a specific partial pressure of oxygen designed to inhibit the growth of anaerobic pathogens.

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